

# ENTERED

#2  
OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003

TIME: 14:40:44

Input Set : N:\CrF3\RULE60\09938671.raw.txt  
 Output Set: N:\CRF4\08152003\I938671.raw

1 <110> APPLICANT: Rosen et al.  
 2 <120> TITLE OF INVENTION: 36 Human Secreted Proteins  
 3 <130> FILE REFERENCE: PZ022P1  
 4 <140> CURRENT APPLICATION NUMBER: US/09/938,671  
 5 <141> CURRENT FILING DATE: 2001-08-27  
 6 <150> PRIOR APPLICATION NUMBER: 09/348,457  
 7 <151> PRIOR FILING DATE: 1999-07-07  
 8 <150> PRIOR APPLICATION NUMBER: 60/070,567  
 9 <151> PRIOR FILING DATE: 1998-01-07  
 10 <150> PRIOR APPLICATION NUMBER: 60/070,692  
 11 <151> PRIOR FILING DATE: 1998-01-07  
 12 <150> PRIOR APPLICATION NUMBER: 60/070,704  
 13 <151> PRIOR FILING DATE: 1998-01-07  
 14 <150> PRIOR APPLICATION NUMBER: 60/070,658  
 15 <151> PRIOR FILING DATE: 1998-01-07  
 16 <160> NUMBER OF SEQ ID NOS: 196  
 17 <170> SOFTWARE: PatentIn Ver. 2.0  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 733  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Homo sapiens  
 23 <400> SEQUENCE:  
 24 gggatccgga gcccaaatact tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60  
 25 aattcgaggg tgccaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga 120  
 26 tctcccgac tccttaggtc acatgcgtgg tggtaggtt aagccacgaa gaccctgagg 180  
 27 tcaagttcaa ctggtagtgc gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240  
 28 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtctg caccaggact 300  
 29 ggctgaatgg caaggagtag aagtgcagg tctccaacaa agccctccca acccccattcg 360  
 30 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggttac accctgcccc 420  
 31 catcccgaga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480  
 32 atccaagcga catcgccgtg gagtgggaga gcaatggca gccggagaac aactacaaga 540  
 33 ccacgcctcc cgtgctgac tccgacggct cttcttcct ctacagcaag ctcaccgtgg 600  
 34 acaagagcag gtggcagcag gggAACGTCT tctcatgctc cgtgatgcat gaggctctgc 660  
 35 acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720  
 36 gactcttagag gat 733  
 38 <210> SEQ ID NO: 2  
 39 <211> LENGTH: 5  
 40 <212> TYPE: PRT  
 41 <213> ORGANISM: Homo sapiens  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: Site  
 44 <222> LOCATION: (3)  
 45 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/938,671**

**DATE: 08/15/2003**  
**TIME: 14:40:44**

**Input Set : N:\Crf3\RULE60\09938671.raw.txt**  
**Output Set: N:\CRF4\08152003\I938671.raw**

```

46 <400> SEQUENCE: 2
W--> 47 Trp Ser Xaa Trp Ser
48 1 5
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 86
52 <212> TYPE: DNA
53 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 3
55 ggcgcctcgag atttcccgaa aatcttagatt tccccgaaat gatttcccgaaatgatttc 60
56 cccgaaatataat ctgccatctc aatttag 86
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 27
60 <212> TYPE: DNA
61 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 4
63 gcggcaagct ttttgcaaag cctaggc 27
65 <210> SEQ ID NO: 5
66 <211> LENGTH: 271
67 <212> TYPE: DNA
68 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 5
70 ctcgagattt ccccgaaatc tagatttccc cgaaatgattt tccccgaaat gatttcccg 60
71 aaatatctgc catctcaattt agtcagcaac catagttcccg cccctaactc cgcctatccc 120
72 gcccttaact ccggcccaattt ccggccatcc tccggccat ggttactaa tttttttat 180
73 ttatgcagag gccgaggccg cctcggccctc tgagctattt cagaagtatg gaggaggctt 240
74 ttttggaggc ctaggctttt gaaaaagct t 271
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 32
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
80 <400> SEQUENCE: 6
81 gcgctcgagg gatgacagcg atagaacccc gg 32
83 <210> SEQ ID NO: 7
84 <211> LENGTH: 31
85 <212> TYPE: DNA
86 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 7
88 gcgaagcttc gcgactcccc ggatccgcctt c 31
90 <210> SEQ ID NO: 8
91 <211> LENGTH: 12
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
94 <400> SEQUENCE: 8
95 ggggactttc cc 12
97 <210> SEQ ID NO: 9
98 <211> LENGTH: 73
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 9

```

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/938,671**

**DATE: 08/15/2003**  
**TIME: 14:40:44**

**Input Set : N:\Crf3\RULE60\09938671.raw.txt**  
**Output Set: N:\CRF4\08152003\I938671.raw**

102	gcggcctcgaa ggggactttc ccggggactt tccgggact ttccggact ttccatcctg	60
103	ccatctcaat tag	73
105 <210>	SEQ ID NO: 10	
106 <211>	LENGTH: 256	
107 <212>	TYPE: DNA	
108 <213>	ORGANISM: Homo sapiens	
109 <400>	SEQUENCE: 10	
110	ctcgaggggaa ctttccccgg gactttccgg ggactttccg ggactttcca tctgccatct	60
111	caatttagtca gcaaccatag tcccggccct aactccgccc atcccgcccc taactccgccc	120
112	cagttccgccc cattctccgc cccatggctg actaattttt tttatattatg cagaggccga	180
113	ggccgcctcg 'gcctctgagc tattccagaa gtagtgagga ggctttttt gaggcctagg	240
114	cttttgcaaa aagctt	256
116 <210>	SEQ ID NO: 11	
117 <211>	LENGTH: 1713	
118 <212>	TYPE: DNA	
119 <213>	ORGANISM: Homo sapiens	
120 <400>	SEQUENCE: 11	
121	ggcacgagca cagataaaga taagtttac tgtcatgctg ctttaacat aacagagcaa	60
122	catcacctag gaaaaaagt ttaggagga ttttaatcc atatattttt cttatggcta	120
123	gataaaagatt tctctgaaaa aaagaagcat gtcaggaatc tctgggtgcc ccttttcct	180
124	ctggggactt ctgcattgt tgggcttggc tttgggtata tcactgatct tcaatatttc	240
125	ccactatgtg gaaaagcaac gacaagataa aatgtacagc tactccagtg accacaccag	300
126	ggttgatgag tattatattt aagacacacc aatttatggt aacttagatg atatgatttc	360
127	agaaccaatg gatgaaaatt gctatgaaca aatgaaagcc cgaccagaga aatctgtaaa	420
128	taagatgcag gaagccaccc catctgcaca ggcaaccaat gaaacacaga tgtgctacgc	480
129	ctcaattgtat cacagcgta aggggaagcg tagaagccca gaaacacaga tactcatttc	540
130	tcaagacaagg atggagatga gcaactacat gcaatagatg ccagcggttc taaaccaccc	600
131	tagtagacag tttctccccg aaagccaggc gtagaggaaa acattcatga tgatccatc	660
132	gactgttgg attgatccgt gctaagagaa acctattaac tagctggacc atgatctgtt	720
133	caatgattgg ctcctattga agatggcttc taagaaaaca agatgcacag aggacacaga	780
134	aggacttggc agcagggtga tgacctgatc atttggatgat gggatgggg cttacctt	840
135	attcacagct tacactttagt catgccaaat gtaagccat gaaaatcaatg atttcaaata	900
136	actaaaaaaa tgctttacta ctaaaatgtt aaaaattat gtgctcacct cggcagcaca	960
137	tataactaaaa attaataaga cccagcttga aaatttgagcc tgataacaatg attacaattt	1020
138	cacaataacct aataactttagg gaaatataaaa aatttaagca tgaatgtttt ctggAACACG	1080
139	ttagaagaaaa aataaaaagcc aatgagttt ttttaattt tcctttctca ccaatgggca	1140
140	atagccccata attgaaataa atttctgtattt gaaagtata gaaacacatta aaatgcatta	1200
141	ctaagagaag taatataattt ttcttacaaa gtattttcc caaagatagc ttactattt	1260
142	caaaaatttgt caaattaatg catgctcattt acaacaaaca aatataaaaa agattttagg	1320
143	aattctacta gccagagata gtcacttggg gaaactttctt atatatcctt ctaaatattt	1380
144	ttctgggcat gctttagt gatcatcgt tgtttctttt tattttgaac caaaaatgtg	1440
145	gtttctttt tacacattac ttaaactttc ttccagtc acaatataattt gtggattttat	1500
146	tttcactgtt atatttaact atatataaaat acgcatatat tggatattttt atgtctgctt	1560
147	agcaccacccac tgataaccaa atcacagttt atttaataa tttaatgac ttcaaaaaaa	1620
148	caatttattt atgcaaaaag caaggttggatgacatgt ttcttcaat aattaaaaaaa	1680
149	tactgctca ctgtcaaaaaa aaaaaaaaaaaa aaa	1713
151 <210>	SEQ ID NO: 12	
152 <211>	LENGTH: 2062	
153 <212>	TYPE: DNA	

## **RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003

TIME: 14:40:44

Input Set : N:\Crf3\RULE 60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003.  
TIME: 14:40:44

Input Set : N:\Crf3\RULE60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

204 <221> NAME/KEY: SITE  
 205 <222> LOCATION: (1205)  
 206 <223> OTHER INFORMATION: n equals a,t,g, or c  
 207 <400> SEQUENCE: 13  
 208 ggcacgaggg gactttcac agtcagctgg acgcacacac agcccagtaa aagaggggac 60  
 209 ccatcccgaa agccccgggg agggcacacgc tgcctcctcc cgggctccccc tgccacctgg 120  
 210 tgcctacctg cccccctgctc cctgcccgggt ccggctctca ccccatctc atctggcctt 180  
 211 gactctgccc ttgaggggcc taggggtgca gccagcctgc tccgagctcc cctgcagatg 240  
 212 gaggaggcca tcctggtccc ctgcgtgctg gggctctgc tgctgccat cctgcccatt 300  
 213 ttgatggcac tgtgtgtgca ctgcccacaga ctgcccaggct cctacgacag cacatcctca 360  
 214 gatagttgtt atccaaaggg gcatccaggtaa caaacggcct cacacggttg cccctggcc 420  
 215 acctgcctac ccacctgtca cctccttacc acccctgagc cagccagacc tgctcccat 480  
 216 cccaaagatcc ccgcagcccc ttgggggctc ccaccggacg ccacccatcc ggcgggattc 540  
 217 ttagtgggcc aacagtgtgg cgagctacga aacgaggaac cagcctgtga ggatgcggat 600  
 218 gagatgagga cgactatcac aacccaggct acctgggtt gtttctgtac agcaccgggg 660  
 219 ccactacact gctccccat cagctcctgc actcagcacc cctggcatcc gagacagtgc 720  
 220 cttctccatg gatggcagcc gggagttatgt gaatgtgtcc caggaactgc atcctggagc 780  
 221 agcgtctctg gatggcagcc gggagttatgt gaatgtgtcc caggaactgc atcctggagc 840  
 222 ggctaagact gaggcctggcc ccctgaggtaa ccaggaggca gaggaagtgg aggaagagg 900  
 223 ggctccagat tacgagaatc tgcaggagct gaactgggg cctgtggagg ccgagtctgt 960  
 224 cctggAACCA ggcttgccctg ggacggctga gctggcagc tggaaagtggc tctgggtcc 1020  
 225 tcacatggcg tcctggccctt gctccagcc gacaacagcc tgagaaatcc ccccttaact 1080  
 226 tattatcaat ttggggttcg gcctgtgccc ccgaacgctc tgaccttctg acgcagcctg 1140  
 227 agaatgaccc gctggcccc agccctactc tggtaataca ataaaggcct gcgtgtgtct 1200  
 W--> 228 gtgtaaaaaaaaaaaaaaa aaaa 1224  
 230 <210> SEQ ID NO: 14  
 231 <211> LENGTH: 1621  
 232 <212> TYPE: DNA  
 233 <213> ORGANISM: Homo sapiens  
 234 <220> FEATURE:  
 235 <221> NAME/KEY: SITE  
 236 <222> LOCATION: (1596)  
 237 <223> OTHER INFORMATION: n equals a,t,g, or c  
 238 <221> NAME/KEY: SITE  
 239 <222> LOCATION: (1607)  
 240 <223> OTHER INFORMATION: n equals a,t,g, or c  
 W--> 241 <221> SITE  
 242 <222> LOCATION: (1616)  
 243 <223> OTHER INFORMATION: n equals a,t,g, or c  
 W--> 244 <400> 14  
 245 gggcaaccct gccattctcc cctccaggtaa aagattctac tttattcagg aaggctgggt 60  
 246 gcttcaggaa gctaggctta cacaaggccaa ccaagattga gaaggtaggg gatgtcttc 120  
 247 aatggaggcc atagttgtca tctttcttc tgacggcgtt ctaggacaaa caatgagcaa 180  
 248 attgagatgt cctgtattgg gaggatgagg ctgatatgtt tcatttcattt cagaatttt 240  
 249 gggcttagagc accttttgg gaaatatggc cttaggraaa agaacggcata cttacctgg 300  
 250 cactatggcc atagtcttgc gttttcttag tcagcatgtt attgggttgc ccttaagttt 360  
 251 atgmcaccaa aaataactatt aactctgtta ttttttttgc taatccatc tcaaatttt 420  
 252 ttcttagagtt agaatcagaa cacaaggatg ctcatatcata catggaggaa aagttggccaa 480  
 253 agcatttaaaa aaataacccc aaaagtataat cttagcgtta agcttggtag ataaagggtga 540

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003  
TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 3  
Seq#:12; N Pos. 1674,1699  
Seq#:13; N Pos. 1205  
Seq#:14; N Pos. 1596,1607,1616  
Seq#:16; N Pos. 55,110  
Seq#:19; N Pos. 602,603,606,607,608  
Seq#:21; N Pos. 540  
Seq#:24; N Pos. 146,525,2196,2254,2256,2274  
Seq#:32; N Pos. 32,772,829  
Seq#:34; N Pos. 85  
Seq#:36; N Pos. 607  
Seq#:37; N Pos. 34  
Seq#:39; N Pos. 1246,1846  
Seq#:44; N Pos. 2755,2849,2919,2983,2987,2998,3027  
Seq#:46; N Pos. 1240  
Seq#:47; N Pos. 893,895,905,911  
Seq#:50; N Pos. 2278,2290  
Seq#:56; Xaa Pos. 143  
Seq#:57; Xaa Pos. 51  
Seq#:58; Xaa Pos. 102  
Seq#:59; Xaa Pos. 31,48  
Seq#:60; Xaa Pos. 98  
Seq#:61; Xaa Pos. 52  
Seq#:62; Xaa Pos. 52  
Seq#:64; Xaa Pos. 42  
Seq#:66; Xaa Pos. 58  
Seq#:68; Xaa Pos. 74  
Seq#:70; Xaa Pos. 46  
Seq#:71; Xaa Pos. 64  
Seq#:72; Xaa Pos. 48  
Seq#:73; Xaa Pos. 49  
Seq#:74; Xaa Pos. 47  
Seq#:75; Xaa Pos. 59  
Seq#:77; Xaa Pos. 44  
Seq#:78; Xaa Pos. 48  
Seq#:79; Xaa Pos. 210  
Seq#:80; Xaa Pos. 48  
Seq#:81; Xaa Pos. 48  
Seq#:83; Xaa Pos. 89  
Seq#:84; Xaa Pos. 161,212,213,215,216,218,221,250  
Seq#:85; Xaa Pos. 58  
Seq#:86; Xaa Pos. 49  
Seq#:87; Xaa Pos. 170  
Seq#:88; Xaa Pos. 174

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 08/15/2003  
PATENT APPLICATION: US/09/938,671                    TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

Seq#:89; Xaa Pos. 275  
Seq#:90; Xaa Pos. 83  
Seq#:91; Xaa Pos. 99,212  
Seq#:92; Xaa Pos. 41  
Seq#:93; Xaa Pos. 49  
Seq#:94; Xaa Pos. 90  
Seq#:96; Xaa Pos. 60

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36  
Seq#:2; Line(s) 45  
Seq#:3; Line(s) 55,56  
Seq#:4; Line(s) 63  
Seq#:5; Line(s) 70,71,72,73,74  
Seq#:6; Line(s) 81  
Seq#:7; Line(s) 88  
Seq#:8; Line(s) 95  
Seq#:9; Line(s) 102,103  
Seq#:10; Line(s) 110,111,112,113,114  
Seq#:11; Line(s) 121,122,123,124,125,126,127,128,129,130,131,132,133,134  
Seq#:11; Line(s) 135,136,137,138,139,140,141,142,143,144,145,146,147,148  
Seq#:11; Line(s) 149  
Seq#:12; Line(s) 163,164,165,166,167,168,169,170,171,172,173,174,175,176  
Seq#:12; Line(s) 177,178,179,180,181,182,183,184,185,186,187,188,189,190  
Seq#:12; Line(s) 191,192,193,194,195,196,197  
Seq#:13; Line(s) 208,209,210,211,212,213,214,215,216,217,218,219,220,221  
Seq#:13; Line(s) 222,223,224,225,226,227,228  
Seq#:14; Line(s) 245,246,247,248,249,250,251,252,253,254,255,256,257,258  
Seq#:14; Line(s) 259,260,261,262,263,264,265,266,267,268,269,270,271,272  
Seq#:15; Line(s) 279,280,281,282,283,284,285,286,287,288,289,290,291,292  
Seq#:15; Line(s) 293,294,295,296,297,298,299,300,301,302  
Seq#:16; Line(s) 316,317,318,319,320,321,322,323,324,325,326,327,328,329  
Seq#:16; Line(s) 330,331,332,333  
Seq#:17; Line(s) 340,341,342,343,344,345,346,347,348,349,350,351,352,353  
Seq#:17; Line(s) 354  
Seq#:18; Line(s) 361,362,363,364,365,366,367,368,369,370,371,372,373,374  
Seq#:18; Line(s) 375  
Seq#:19; Line(s) 398,399,400,401,402,403,404,405,406,407,408  
Seq#:20; Line(s) 415,416,417,418,419,420,421,422,423,424  
Seq#:21; Line(s) 435,436,437,438,439,440,441,442,443,444,445,446,447,448  
Seq#:21; Line(s) 449,450,451,452,453,454,455,456,457,458,459,460,461,462  
Seq#:21; Line(s) 463,464,465,466,467,468  
Seq#:22; Line(s) 475,476,477,478,479,480,481,482,483,484  
Seq#:23; Line(s) 491,492,493,494,495,496,497,498,499,500,501,502,503,504  
Seq#:23; Line(s) 505,506,507,508,509,510  
Seq#:24; Line(s) 536,537,538,539,540,541,542,543,544,545,546,547,548,549

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 08/15/2003  
PATENT APPLICATION: US/09/938,671                    TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

Seq#:24; Line(s) 550,551,552,553,554,555,556,557,558,559,560,561,562,563  
Seq#:24; Line(s) 564,565,566,567,568,569,570,571,572,573,574  
Seq#:25; Line(s) 581,582,583,584,585,586,587,588,589,590,591,592,593,594  
Seq#:25; Line(s) 595  
Seq#:26; Line(s) 602,603,604,605,606,607,608,609  
Seq#:27; Line(s) 616,617,618,619,620,621,622,623,624,625,626,627,628,629  
Seq#:28; Line(s) 636,637,638,639,640,641,642,643  
Seq#:29; Line(s) 650,651,652,653,654,655,656,657,658,659,660,661,662,663  
Seq#:29; Line(s) 664,665,666,667,668,669,670,671,672  
Seq#:30; Line(s) 679,680,681,682,683,684,685,686,687,688,689  
Seq#:31; Line(s) 696,697,698,699,700,701,702,703,704,705,706,707,708,709  
Seq#:31; Line(s) 710,711,712,713,714,715,716  
Seq#:32; Line(s) 733,734,735,736,737,738,739,740,741,742,743,744,745,746  
Seq#:33; Line(s) 753,754,755,756,757,758,759,760,761,762,763,764,765,766

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003  
TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:162 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:1620  
M:341 Repeated in SeqNo=12  
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1200  
L:241 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:244 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:1560  
L:315 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
M:341 Repeated in SeqNo=16  
L:388 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19  
L:391 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19  
L:394 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19  
L:397 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19  
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:600  
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480  
L:523 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:526 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:529 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:532 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:535 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:120  
M:341 Repeated in SeqNo=24  
L:729 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32  
L:732 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32  
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
M:341 Repeated in SeqNo=32  
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60  
L:862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:600  
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:940 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39  
L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:1200  
M:341 Repeated in SeqNo=39  
L:1115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44  
L:1118 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44  
L:1121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44  
L:1124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44  
L:1127 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44  
L:1130 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44  
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:2700  
M:341 Repeated in SeqNo=44  
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:1200  
L:1249 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47  
L:1252 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47  
L:1255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47  
L:1270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:840  
M:341 Repeated in SeqNo=47

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003  
TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

L:1346 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50  
L:1384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:2220  
M:341 Repeated in SeqNo=50  
L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:128  
L:1578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:48  
L:1602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:96  
L:1616 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59  
L:1619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:16  
M:341 Repeated in SeqNo=59  
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:96  
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:48  
L:1680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:48  
L:1712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:32  
L:1760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:48  
L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:64  
L:1840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:32  
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:48  
L:1874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:32  
L:1892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:48  
L:1907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:32  
L:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:48  
L:1987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:32  
L:2003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:32  
L:2041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:208  
L:2095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:32  
L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:32  
L:2177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:80  
L:2191 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84  
L:2194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84  
L:2197 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84  
L:2200 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84  
L:2203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84  
L:2206 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84  
L:2209 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84  
L:2230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:160  
M:341 Repeated in SeqNo=84  
L:2420 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:91  
L:3986 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185  
L:3989 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185  
L:3992 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185  
L:3995 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185  
L:3998 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185  
L:4001 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185

**STATISTICS SUMMARY**

PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003

TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt  
Output Set: N:\CRF4\08152003\I938671.raw

Application Serial Number: US/09/938,671

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 08-27-2001

Art Unit: OIPE

Software Application: PatentIN2.0

Total Number of Sequences: 196

Total Nucleotides: 60531

Total Amino Acids: 12201

Number of Errors: 0

Number of Warnings: 120

Number of Corrections: 0

**MESSAGE SUMMARY**

258 W: 41 (Mandatory Feature missing)

341 W: 79 ((46) "n" or "Xaa" used)